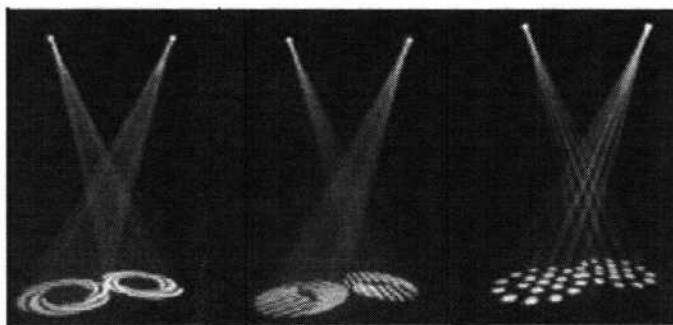
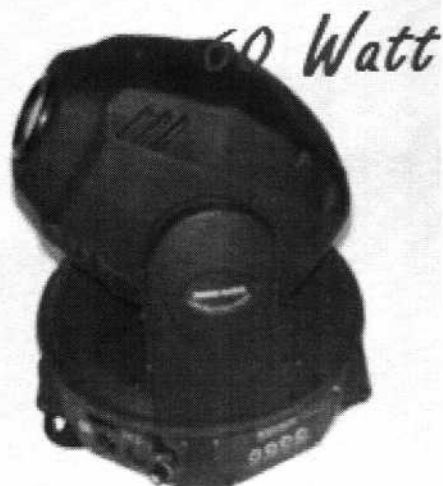


# Eternal Lighting Company

## Mini60 Spot - 60 Watt LED Moving Head

**With 3 Facet Prism**



[support@EternalLighting.com](mailto:support@EternalLighting.com)

832-623-9377

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## **1. Before you begin**

### **1.1 Packing list**

Product name	quantity
Mini moving head light	1 pcs
Signal cable	1 base
Power -line	1 base

### **1.2 Unpacking instructions**

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

### **1.3 AC Power**

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixtures specifications chart. A fixtures listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat(variable resistor) or dimmer circuit, even if the rheostat or dimmer source voltage matches the fixtures requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

**Warning!** Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth ground.

### **1.4 Safety instructions**

Please read these instructions carefully, it includes important information about the installation, usage and maintenance of this product.

Please keep this user guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

This product is intended for indoor use only!

To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.

The unit must be installed in a location with adequate ventilation, at least

20in(50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked. Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.

Maximum ambient temperature (Ta) is 104°F(40°C). Do not operate fixture at temperatures higher than this.

In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

Don't connect the device to a dimmer pack.

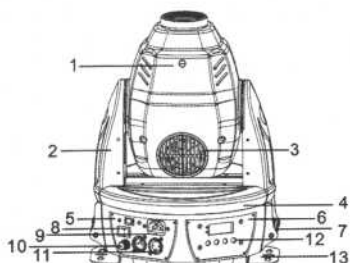
Make sure the power cord is never crimped or damaged.

Never disconnect the power cord by pulling or tugging on the cord.

Avoid direct eye exposure to the light source while it is on.

## 2. Introduction

### 2.1 Description of the fixture



- |                 |                    |
|-----------------|--------------------|
| 1.Moving head   | 10.Fuse holder     |
| 2.Yoke          | 11.3 pin DMX       |
| 3.Fan           | output & input     |
| 4.Base          | 12.Function Button |
| 5.Base panel    | 13.Hook            |
| 6.Display panel |                    |
| 7.Handle        |                    |
| 8.Power switch  |                    |
| 9.Power cord    |                    |

### 2.2 Features

Specification	30w RGB LED	30w White LED	60w White LED(C)	60w White LED(C) with prism	60w White LED(F)	60w White LED(F) with prism
LEDs	RGB LED	White LED	White LED(C )		White LED(F)	
DMX channel	13	11		12	11	12
Color wheel	No	7 colors+open,raindow effect.				
Gobo wheel	6 gobos +open,gobo wheel spin effect.					
Dimmer	0-100%					
Focus	Yes	No	No			
Prism	No			Yes	No	Yes

Strobe	Variable electronic strobe.
Control	Auto-running, Master/slave mode, DMX.
LED display	LED display menu with invert.
Pan/Tilt	Pan 630°, Tilt 240°, Pan /Tilt speed from fast to slow.
Reset	Yes
Fan cool	Yes

### 2.3 DMX channel

Channel	Function		
	30w White LED	30w RGB LED	60w White LED with prism
1	Pan	Pan	Pan
2	Tilt	Tilt	Tilt
3	Color wheel	Focus	Color wheel
4	Gobo wheel	Gobo wheel	Gobo wheel
5	Gobo rotating	Gobo rotating	Gobo rotating
6	Strobe	Strobe	Strobe
7	Dimmer	Red	Dimmer
8	Pan /tilt speed	Green	Prism
9	Pan fine	Blue	Pan /tilt speed
10	Tilt fine	Pan /tilt speed	Pan fine
11	Reset	Pan fine	Tilt fine
12	-	Tilt fine	Reset
13	-	Reset	-

## 3. Setup

Disconnect the power cord before replacing a fuse and always replace with the same type fuse.

### 3.1 Fuse replacement

With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

### 3.2 Fixture linking

You will need a serial data link to run light show of one or more fixtures using a DMX-512 controller or to run synchronized on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Maximum recommended serial data link distance: 500 meters (1640ft).

Maximum recommended number of fixtures on a serial data link: 32 fixtures.

## Data cabling

To link fixtures together you must obtain data cables. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

### DMX data cable

Use a belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

2-conductor twisted pair plus a shield.

maximum capacitance between conductors-30 pF/ft.

maximum capacitance between conductor and shield -55 pF/ft.

maximum resistance of 20 ohms/1000ft.

nominal impedance 100-140 ohms.

### 3.3 3-Pin to 5-Pin conversion chart

Note! If you use a controller with a 5 pin DMX output connector, you will need to use a 5pin to 3 pin adapter

CHAUVET Model No:DMX5M. orDMX 5F

The chart below details a proper cable conversion:

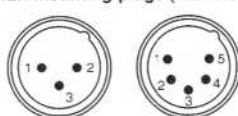
Occupation of the XLR-connection:

DMX - output  
XLR mounting-sockets (rear view):



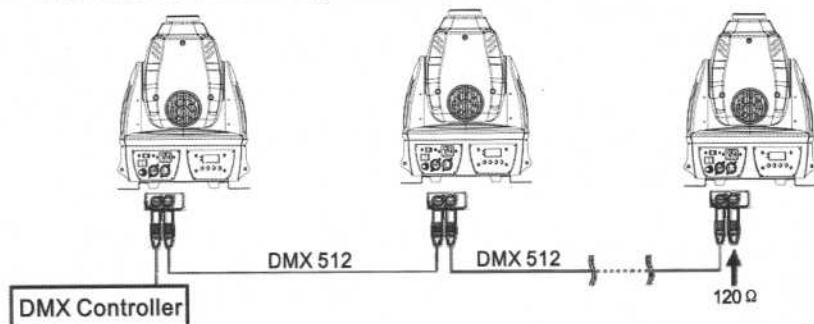
- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)
- 4 - Not connected
- 5 - Not connected

DMX-input  
XLR mounting-plugs (rear view):



### 3.4 Setting up a DMX serial data link

at first link the first light and DMX control through XLR-connection signal cable, then devoluted the light in series, as the follow



This mode allows the until to be controlled by any universal DMX controller.  
The default mode for the fixture is DMX, as follow.

#### 4.4 DMX channel values

Channel			Value	Function
30w White LED	30w RGB LED	60w White LED with prism		
1	1	1	0-255	<b>Pan</b> pan circumrotate 630°
2	2	2	0-255	<b>Tilt</b> Tilt circumrotate 240°
3	-	3	0-7 8-15 16-23 24-31 32-39 40-47 48-55 56-63 64-71 72-79 80-87 88-95 96-103 104-111 112-119 120-127 128-192 193-255	<b>Color wheel</b> Open/White White+Color1 Color 1 Color 1 +Color 2 Color 2 Color 2+Color 3 Color 3 Color 3+Color 4 Color 4 Color 4 +Color 5 Color 5 Color 5+Color 6 Color 6 Color 6+Color7 Color 7 Color 7+White Color wheel positive turn , Speed from fast to slow Color wheel reversal speed increase fast
4	4	4	0-17 18-36 37-55 56-74 75-93 94-112 113-127 128-192 193-255	<b>Gobo wheel</b> Open/White Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo wheel positive turn, Speed from fast to slow Gobo wheel reversal speed increase fast
5	5	5	0 1-127 128-255	<b>Gobo auto-running</b> No Gobo wheel positive turn, Speed from fast to slow Gobo wheel reversal speed increase fast
7	-	7	0-255	<b>Dimmer</b> 0-100%
6	6	6	0 1-255	<b>Strobe</b> No Slow-fast
8	10	9	0 1-255	<b>Pan /tilt speed</b> Most speed Speed from fast to slow
9	11	10		<b>Pan fine</b>

			1-225	Speed from fast to slow
9	11	10	0-225	<b>Pan fine</b> Pan fine 16bit
10	12	11	0-255	<b>Tilt fine</b> Tilt fine 16bit
11	13	12	0-149 150-200	<b>Reset</b> No reset(delay 3 second)
-	-	8	0-12 13-225	<b>Prism</b> No Prism
-	3	-	0 1-255	<b>Focus</b> No Focus
-	7	-	0-255	<b>Red</b> 0-100%
-	8	-	0-255	<b>Green</b> 0-100%
-	9	-	0-255	<b>Blue</b> 0-100%

#### 5. techno-specification iuminllate

Specification	30w RGB LED	30w White LED	60w White LED(C)	60w White LED(C) with prism	60w White LED(F)	60w White LED(F) with prism
Power supply	110 -245V 50/60Hz					
Power consumption	72W		102W	110W	102W	110W
LED(s)	14.5V	2.1A	17.5V	3.35A	13.8A	
Fuse	5/2A, Φ5×20mm					
Pan	630°,16bit fine					
Tilt	240°,16bit fine					
Tiptop environment temperature	104°F(40°C)					
Date input/output	3pin XLR-conntion、anlde socket					
Outside size	280×280×370mm (L×W×H)					
N.W	7.7kg		7.55kg	7.7kg	6.7kg	6.85kg



Note: The manufacture reserves the product upgrades, updates power.